

AUSTRAL WINDOW (O.

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# AUSTRAL WINDOW HARDWARE

FOR WOOD AND ROLLED STEEL CONSTRUCTION



J. R. QUAID Successor to

FRANK BETHUNE
BUILDING SPECIALTIES,
808 Perdido St.
NEW ORLEANS, LA.

CATALOGUE NUMBER
TWENTY-SIX

AUSTRALWINDOWS

Reg. U. S. Pat. Off.

AUSTRAL WINDOW COMPANY

101 PARK AVENUE, NEW YORK

3M-6-25



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### INTRODUCTION

RCHITECTS specializing in schoolhouse designing were among the first to recognize the advantages gained by the use of the AUSTRAL WINDOW.

Until comparatively recent years, the central fan system of ventilation was in general use in all schools and was relied upon entirely to supply a specified quantity of fresh air to each classroom. Although architects, engineers and school authorities gradually realized that this theory of ventilation was not practical, they found themselves helpless by reason of certain state laws requiring the equipment of all schools with the Fan System.

The AUSTRAL WINDOW proved to be the only means through which immediate relief, or adequate ventilation, could be secured, although 90 per cent of the schools equipped with AUSTRAL WINDOWS also have mechanical ventilating systems in operation, to a greater or less degree.

Window ventilation for school buildings has steadily gained in popularity, with the result that the large majority of schools now being erected are provided with window ventilation.

How extensively AUSTRAL WINDOWS are being used in school house construction, by prominent architects throughout the country, will be noted from the reproductions herein.

The AUSTRAL WINDOW provides a permanent source of health and comfort for those occupying the classroom, and that without any additional cost.

It satisfies the demand of the present generation for good ventilation—for pure air without drafts.

### **ADVANTAGES**

1.

The AUSTRAL WINDOW affords a perfect system of ventilation, without direct draft—without expensive or complicated equipment or operating costs. Even though other systems of ventilation are installed, the AUSTRAL WINDOW may be relied upon to furnish adequate ventilation during the greater part of the school period.

2.

Light is regulated and controlled by the arrangement of Shades on Sash. Free circulation of air is not obstructed. Proper control of light in the classroom is secondary only to ventilation. An ideal awning effect is produced without the usual expense and inconvenience.

3.

The Upper and Lower Sash are both reversible for Cleaning or Glazing. This feature is a time-saver and eliminates all risk to the window cleaner. In many locations the reglazing expense is a large item. AUSTRAL sash are reglazed without removing them from the frame—a great saving in labor.

4.

Ease of operation. Heavy Sash operate as easily as a well-hung door and openings may be regulated as desired. This feature is an AUSTRAL characteristic.

5.

Additional light space is secured by the use of AUSTRAL Plank Frames.

AUSTRAL Mullions are about one-half the size of mullions required for double hung windows, yet larger than the mullions of the light steel window which are so small that they give the schoolhouse the "Industrial" appearance.

6.

AUSTRAL BALANCE ARMS eliminate the use of box frames, chains, weights and pulleys, a source of perpetual expense.

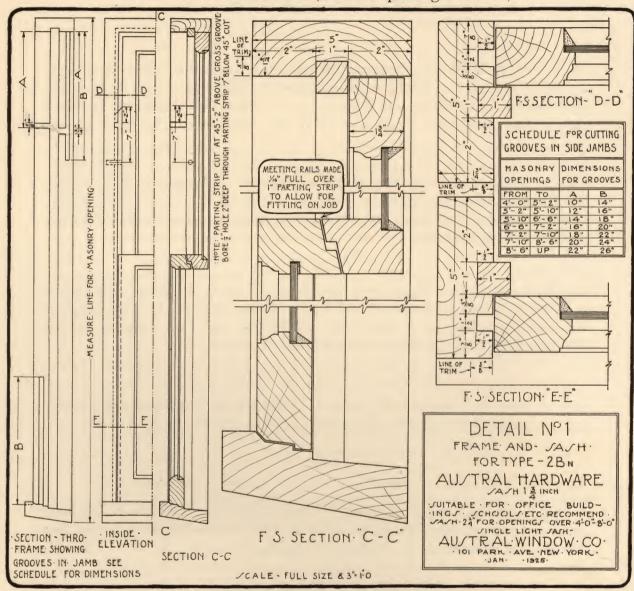
There is no space for the accumulation of dust and dirt.

7.

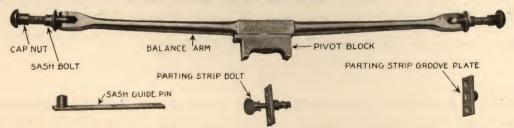
AUSTRAL WINDOWS are also built of heavy two-point contact steel casement sections which insure perfect weathering, at minimum cost.

Wood AUSTRAL Windows lend themselves readily to Weather-Stripping, and may, without affecting the operation of the Sash in the slightest degree, be made tighter than the ordinary double-hung window, weather stripped.

### WOOD WINDOWS (Not Requiring Screens)



#### TYPE 2BN AUSTRAL HARDWARE

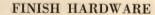


A set of Type 2BN AUSTRAL HARDWARE consists of the following:

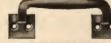
2 Balance Arms, with Pivot Blocks, Sash Bolts and Cap Nuts attached

- 4 Sash Guide Pins
- 2 Parting Strip Bolts
- 2 Parting Strip Groove Plates Screws for applying all parts

All parts thoroughly Electro Galvanized







AUTOMATIC SASH FAST No. 200N

OFFSET PULL No. 300N

### Specifications

### Wood Windows

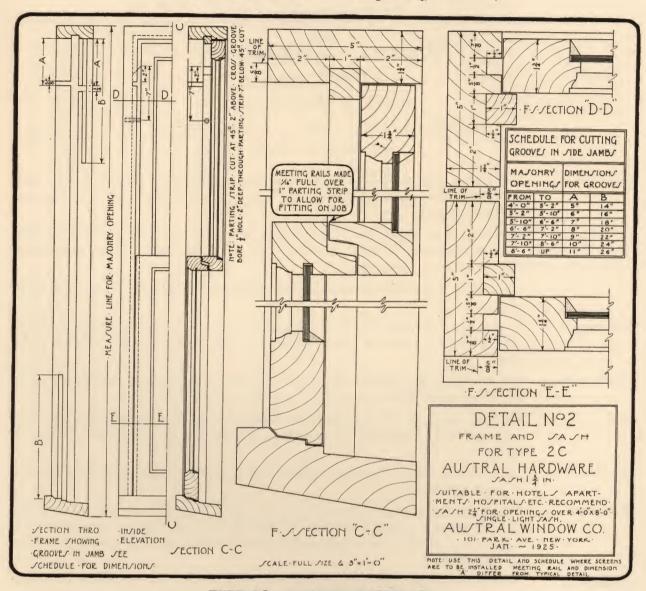
### TYPE 2BN AUSTRAL HARDWARE

Suitable for Office Buildings, Schools, etc.

(NOT REQUIRING SCREENS)

| Frames               | All exterior frames shall be made from clear white pine, well seasoned. The head and sides shall be finished $1\frac{3}{4}$ " x 5", and the sill, of 2" x 6", as per full-sized detail.  |
|----------------------|--|
|                      | The head and sides shall be grooved to receive AUSTRAL HARDWARE. (See Schedule on AUSTRAL BLUE PRINT No. 1, for length of these grooves for various masonry openings.)   |
|                      | The parting strips shall be made of straight-grained white pine $1'' \times 1''$ , in cross section.   |
| Bracing              | Frames are to be braced with two diagonal braces at head, and one brace, placed horizontally, in centre of frame—all to be left in position until sash are to be hung.   |
| Anchoring .          | Frames are to be anchored to metal or wood anchors, placed at intervals of 24 inches on sides, and to an anchor, in centre of head, of frame.  |
| Sash                 | The sash shall be 13/4 inches thick, made of clear, straight-grained white pine, well seasoned. They shall be made true to required size and molded as per detail.   |
| Glazing              | Care must be used, in glazing, to keep sash of equal weight, as all sash must be in perfect balance.   |
| Hardware .           | The above frames and sash shall be fitted with Type 2BN AUSTRAL HARD-WARE as made by the AUSTRAL WINDOW CO., 101 Park Avenue, New York City, whose working drawings and instructions shall be considered part of these specifications. |
| Finish<br>Hardware . | Each pair of sash shall be fitted with one Solid Bronze No. 200 <sub>N</sub> (or Malleable Iron No. 7200½ <sub>N</sub> ) AUSTRAL AUTOMATIC SASH FASTS, to be placed at the centre of the meeting rails.                                |
|                      | Each pair of sash shall be fitted with one pair of Solid Bronze No. 300 <sub>N</sub> (or Malleable Iron No. 7300½ <sub>N</sub> ) AUSTRAL OFFSET PULLS placed on the side rails of the lower sash.                                      |
|                      | The pulls for large school house windows, with sills 3 feet or more from the floor should be located on lower rail of lower sash.  |
| +                    | NOTE: For single light sash, openings exceeding 4' 6" x 8' 0" dimensions of frame and sash should be as follows:   |
|                      | Head and Jambs to finish $13/4'' \times 6''$ Sill $3'' \times 7''$ Sash $23/8''$ thick   |
| v <sub>1</sub>       | Any opening 5' in width by 8' 6" or over in height should be equipped with $23/8$ " sash.  |
| (·. ·                |  |

### WOOD WINDOWS (Requiring Screens)



#### TYPE 2CN AUSTRAL HARDWARE



A set of 2Cn AUSTRAL HARDWARE consists of the following:

- 2 Balance Arms, with Pivot Blocks, Sash Bolts and Cap Nuts attached
  - 2 Sash Guide Pins
  - 2 Spring Sash Guide Pins 2 Parting Strip Bolts
- 2 Parting Strip Groove Plates

Screws for applying all parts All parts thoroughly Electro Galvanized

FINISH HARDWARE



Turnbuckle No. 400

### Specifications

### Wood Windows—Provision for Screens

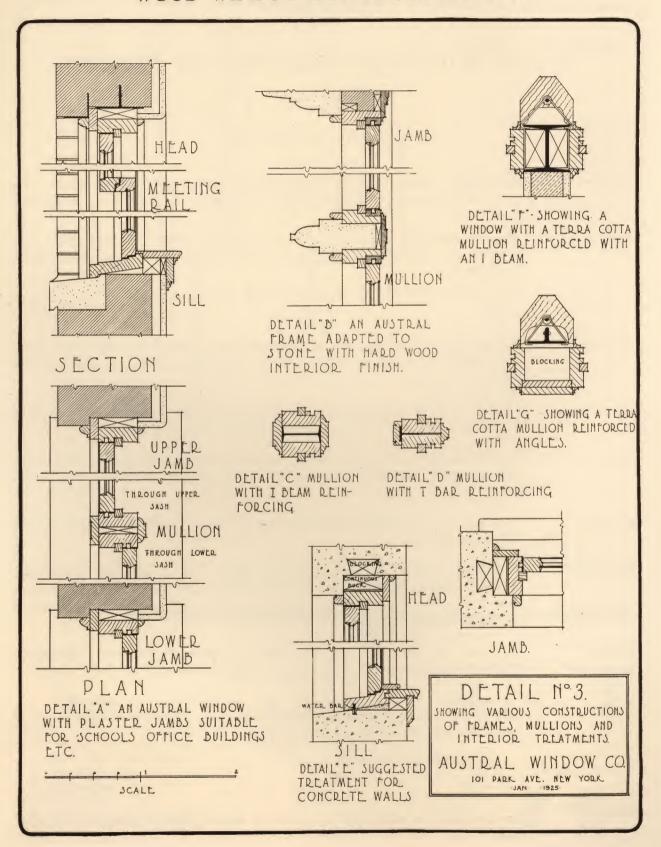
#### TYPE 2CN

#### AUSTRAL HARDWARE

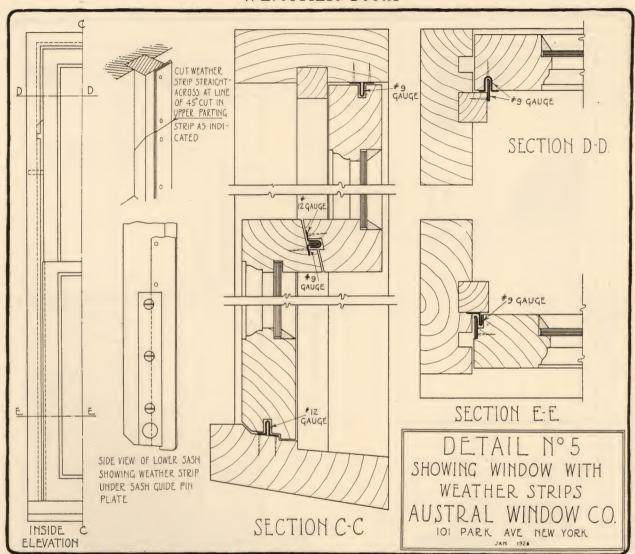
| Frames             | All exterior frames shall be made from clear white pine, well seasoned. The head and sides shall be finished $1\frac{3}{4}$ " x 5", and the sill, of 2" x 6", as per full-sized detail.  |
|--------------------|--|
|                    | The head and sides shall be grooved to receive AUSTRAL HARDWARE. (See schedule on AUSTRAL Blue Print No. 2, for length of these grooves for various openings.)   |
|                    | The parting strips shall be made of straight-grained white pine, $1'' \times 1''$ , in cross section.  |
| Bracing            | Frames are to be braced with two diagonal braces at head, and one brace, placed horizontally, in centre of frame—all to be left in position until sash are to be hung.   |
| Anchoring          | Frames are to be anchored to metal or wood anchors, placed at intervals of 24 inches on sides, and to an anchor, in centre of head, of frame.  |
| Sash               | The sash shall be 13/4 inches thick, made of clear, straight-grained white pine, well seasoned. They shall be made true to required size and moulded as per detail.  |
| Glazing            | Care must be used, in glazing, to keep sash of equal weight, as all sash must be in perfect balance.   |
| Hardware           | The above frames and sash shall be fitted with Type 2CN AUSTRAL HARDWARE, as made by the AUSTRAL WINDOW CO., 101 Park Avenue, New York City, whose working drawings and instructions shall be considered part of these specifications. |
| Finish<br>Hardware | Each pair of sash shall be fitted with one pair of solid brass AUSTRAL TURNBUCKLES No. 400, to be placed on the side rails of the lower sash.  |
|                    | NOTE: For single light sash, openings exceeding 4' 6" x 8' 0" dimensions of frame and sash should be as follows:   |
|                    | Head and jambs to finish $13/4$ " x 6"  Sill $3$ " x 7"  Sash $23/8$ " thick   |
|                    | Any opening 5' in width by 8' 6" or over in height should be equipped with 23/8"   |

sash.

#### WOOD WINDOW DETAIL SUGGESTIONS



#### WEATHER STRIP



### Specifications

| Sill | Use No. 12-gauge zinc strip, double base, with rib 7/16 inch high inserted in |
|------|---|
|      | groove in sash, nailed on 2-inch centres on both bases.                       |

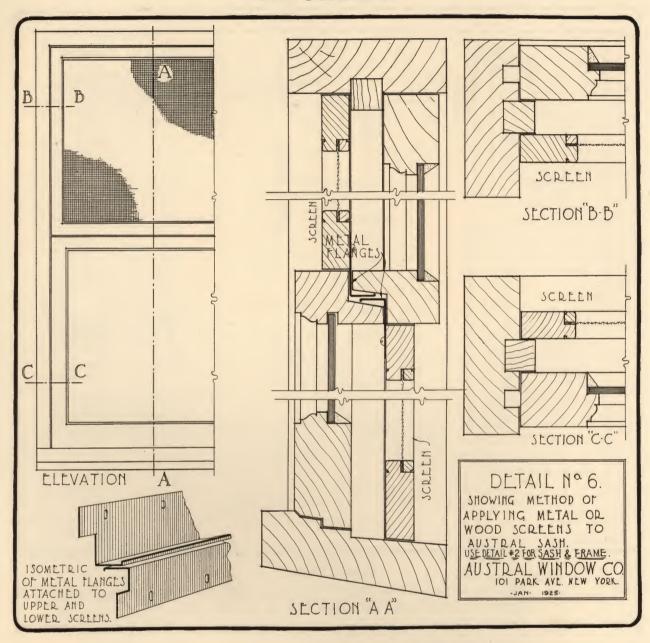
- Head . . . . Use No. 9-gauge zinc strip—same dimension as for sill, nailed on 3 inch centers on both bases.
- Meeting Rails Upper sash to be grooved to receive a lining member of No. 12-gauge zinc strip. Lower sash fitted with a No. 9-gauge angle-shaped zinc strip with rib 7/16 inch high, to fit accurately in lining member of upper sash. Nail on 3-inch centres.
- Stiles of Upper Sash. To have a member of No. 9-gauge zinc strip placed on parting bead to engage a lined groove in stiles of upper sash. This member to be saw-cut straight across at the 45 degree cut in the parting bead to allow for removing section of parting bead, nailed on 2 inch centres. The groove in upper sash to be lined with No. 9-gauge zinc strip with edges turned at right angles to face of sash.
- Stiles of
  Lower Sash

  To have two members of No. 9-gauge zinc strip—interlocking type—one member ber placed on sash and other attached to parting bead, nailed on 2-inch centres.

  All material to be solid zinc, cut cross grain accurately milled to detail.

  See AUSTRAL WINDOW COMPANY DETAIL No. 5.

#### FLY SCREENS



#### METHOD OF APPLYING WOOD OR METAL SCREENS

The upper half of the Screen is placed on the inside of the upper sash, and the lower half of the Screen on the outside of the lower sash, directly against the parting strip.

The two thin metal flanges, attached to the Screen, form a junction at the centre of meeting rails of the sash.

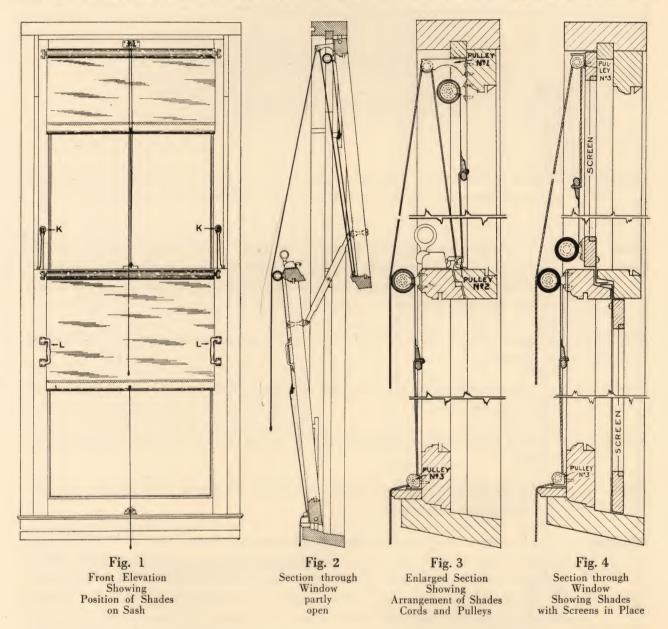
The metal flanges may be secured from this Company. In ORDERING FLANGES FURNISH EXACT MEASUREMENT BETWEEN BALANCE ARMS at centres.

See Detail, page 8, showing construction of frame and sash to receive Screen; and use Specifications, on page 9, covering frame, sash and AUSTRAL HARDWARE.

#### Specifications

Equip all exterior openings with wood (or metal) Screens, to be applied to sash in the manner shown on page 12 of Catalogue No. 26 of the AUSTRAL WINDOW CO., whose working drawings and instructions shall be considered part of this specification.

#### DIAGRAMS SHOWING AUSTRAL SASH, WITH SHADES ATTACHED



Separate Shades are attached to the Upper Rail of each Sash.

Eccentric Pulleys lock the Cords, so that the Shades may be adjusted at any point on the Sash: thus held, incoming air neither flaps nor tears them.

When the Window is open, even with Shades pulled all the way down, air enters without obstruction—and a much cooler room is the result.

If Shades are hung on frames and simply drawn down, as is done with the ordinary window, the resistance of the Shades to the incoming air causes them to flap and is apt to tear them, defeating to a large extent the ventilating feature of the AUSTRAL WINDOW.

Shade Pulleys may be obtained from this Company.

Pamphlet containing specifications and giving full instructions for application of Shades will be sent upon request.

### Specifications

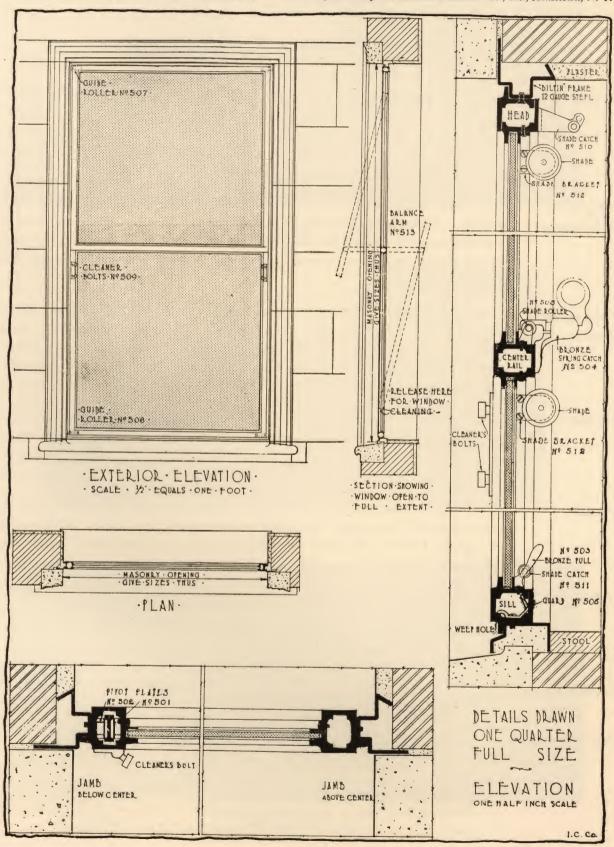
### Window Shades

- This specification is intended to provide for all labor and material necessary for General . . furnishing and installing complete all the window shades required for ----All shade cloth shall be "Tontine," or equal, of color to be selected by the Shade owners. Each bidder must submit a sample of the material he proposes to Cloth furnish. The finished length of each shade must be at least six inches longer than the sash opening. Shade rollers to be All-Metal single ratchet or approved equal, to be 11/4" in Rollers . . diameter. A heavy slat at least 11/4" in width shall be provided and used in the bottom of all shades. Eyelet . . . Each shade shall be equipped with an eyelet fastened through the center of the slat. All shades to be equipped with the best quality of No. 4 solid braided cord, to Cord . . . match color of the shade. The proper hardware for hanging and operating shades hung on AUSTRAL bal-Hanging . .
- The proper hardware for hanging and operating shades hung on AUSTRAL balance sash consists of two pulleys known as Eccentric Extension Pulley No. 1 used on the upper rail of the upper sash, Eccentric Pulley No. 3 used on the lower rail of lower sash. These pulleys are made of die-cast roller bearing metal, and no other will be acceptable. All work to be done strictly in accordance with pamphlet of instructions issued by the AUSTRAL WINDOW COMPANY, 101 Park Avenue, New York City, which pamphlet is made a part of this specification.
- Screws . . . All shade brackets to be fastened to sash by means of screws.

  The entire lot of shades shall be left whole and free from stains, dirt or other imperfections, and in perfect working order at completion.

### INTERNATIONAL-AUSTRAL SOLID ROLLED STEEL WINDOW

EASY TO OPERATE AND WEATHERTIGHT > Manufactured by International Casement Co., Inc., Jamestown, N. Y.



### Specifications

### International-Austral Steel Windows

- Scope . . . The work included under this heading shall consist of pressed steel "BILTIN" sub-frame. INTERNATIONAL-AUSTRAL WINDOW consists of rolled steel frame and sash complete with hardware. The "BILTIN" frame to be set up, built in and pointed by mason as the walls go up. Rolled steel frame, sash and hardware to be erected by this contractor.
- "Biltin" sub-Frames : "BILTIN" frames to be made of No. 12-gauge pressed steel, corners electrically welded. Painted one coat red primer and baked. Frames to be delivered to building properly braced and to be set up on masonry sill in bed of cement, braced plumb, built in as the walls go up and pointed outside by mason contractor.
- Frames and Sashes forming the window shall be of solid rolled open hearth steel of special shapes formed without the use of loose or screwed-on strips. Both the outside frame and sash frame to be electrically welded at all mitres. Sashes to be carefully fitted to frames to insure perfect contact, both inside and outside at all places, and to have steel glazing angles set with brass screws.
- Hardware . . All hardware shall be included and set by this contractor and shall consist of the following: 2 AUSTRAL balance arms, 4 sash roller guides, 1 bronze automatic cam catch, 1 bronze pull, 2 pair copper plated steel shade brackets, 2 shade pulleys, 1 pair solid drop forge open hearth steel galvanized cleaner bolts.
- Finish . . . . This contractor shall paint the "BILTIN" frames one coat red primer. Frames and sashes shall be painted two priming coats, finish slate gray. First coat to be applied before sashes are assembled to frames. Each coat of paint to be baked on.
- Setting . . . . The rolled steel frames, sashes and hardware are to be set by this contractor. Same shall be set to pressed steel "BILTIN" frames by steel machine screws and carefully bedded and pointed in INTERNATIONAL mastic cement. This work to be done after plastering is completed.
- Guarantee . . The work to be finished in a workmanlike manner, guaranteed weathertight, and to the entire satisfaction of the architect.
- Not Included Glass, glazing, setting of "BILTIN" frames, painting at the building, shades, cords, cleaner's harness and outfit.

NOTE: Special features, such as transoms, mullion bars, muntins or other type of window to be specially described and specified. The above specifications apply in general only to a typical INTERNATIONAL-AUSTRAL WINDOW.

# Austral Windows



EASTERN HIGH SCHOOL WASHINGTON, DISTRICT OF COLUMBIA SNOWDEN ASHFORD, Architect



TUSCAN SCHOOL MAPLEWOOD, NEW JERSEY GUILBERT & BETELLE, Architects



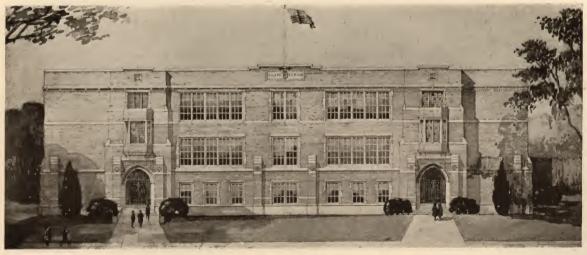
HIGH SCHOOL RUTLAND, VERMONT TOOKER & MARSH, INC., Architects



EVANSTON HIGH SCHOOL EVANSTON, ILLINOIS PERKINS, FELLOWS & HAMILTON, Architects



JUNIOR-SENIOR HIGH SCHOOL WASECA, MINNESOTA WILLIAM B. ITTNER, Architect



GRADE SCHOOL
MALONE, NEW YORK
TOOKER & MARSH, INC., Architects

# Austral Windows



PHYSICAL EDUCATION BUILDING PORT ARTHUR, TEXAS WILLIAM B. ITTNER, Architect



BERNARD T. JANNEY SCHOOL WASHINGTON, DISTRICT OF COLUMBIA A. L. Harris, Architect



ST. IGNATIUS SCHOOL HICKSVILLE, LONG ISLAND GUSTAVE E. STEINBACK, Architect



SENIOR HIGH SCHOOL FOR GIRLS ATLANTA, GEORGIA EDWARDS & SAYWARD, Architects



AUDUBON SCHOOL NEW ORLEANS, LOUISIANA E. A. Christy, Architect



GRADE SCHOOL
HARRISON, NEW YORK
TOOKER & MARSH, INC., Architects



HIGH SCHOOL
PORT JERVIS, NEW YORK
TOOKER & MARSH, INC., Architects



ROOSEVELT SCHOOL
GARY, INDIANA
JOE H. WILDERMUTH & Co., Architects



LEWES HIGH SCHOOL LEWES, DELAWARE GUILBERT & BETELLE, Architects



OTTAWA HILLS HIGH SCHOOL GRAND RAPIDS, MICHIGAN H. H. TURNER, Architect



WISSINOMING BAPTIST CHURCH WISSINOMING, PENNSYLVANIA HEACOCK & HOKANSON, Architects



BOOKER T. WASHINGTON SCHOOL DOVER, DELAWARE Guilbert & Betelle, Architects



WEST ORANGE HIGH SCHOOL WEST ORANGE, NEW JERSEY GUILBERT & BETELLE, Architects



STOCKING SCHOOL GRAND RAPIDS, MICHIGAN H. H. Turner, Architect



BUFFALO STREET JUNIOR HIGH SCHOOL JAMESTOWN, NEW YORK GUILBERT & BETELLE, Architects

# Austral Windows



LAFAYETTE SCHOOL NEW ORLEANS, LOUISIANA E. A. Christy, Architect



LYON STREET SCHOOL GRAND RAPIDS, MICHIGAN H. H. Turner, Architect



FRANKLIN SCHOOL
DETROIT, MICHIGAN
MALCOMSON & HIGGINBOTHAM, Architects



NORTH GLENSIDE SCHOOL ADDITION NORTH GLENSIDE, PENNSYLVANIA HEACOCK & HOKANSON, Architects



ST. PAUL SCHOOL
WASHINGTON, DISTRICT OF COLUMBIA
MILBURN HEISTER & Co., Architects



GRAMMAR AND HIGH SCHOOL LANETT, ALABAMA ROBERT & COMPANY, Architects



CRESTON HIGH SCHOOL GRAND RAPIDS, MICHIGAN H. H. TURNER, Architect



ST. JAMES PAROCHIAL SCHOOL ELKINS PARK, PENNSYLVANIA F. Ferdinand Durang, Architect



McKINLEY SCHOOL ADDITION ABINGTON, PENNSYLVANIA TILDEN & REGISTER, Architects



WASHINGTON SCHOOL NEW ORLEANS, LOUISIANA E. A. Christy, Architect



GIBSON SCHOOL
PENSACOLA, FLORIDA
A. D. WILLIS, Architect



HIGHLAND SCHOOL ABINGTON, PENNSYLVANIA HEACOCK & HOKANSON, Architects



HARRISON SCHOOL GRAND RAPIDS, MICHIGAN ROBINSON & CAMPAU, Architects



HIGH SCHOOL HORNELL, NEW YORK TOOKER & MARSH, INC., Architects



SIBLEY SCHOOL GRAND RAPIDS, MICHIGAN H. H. TURNER, Architect



BENJAMIN BOSSE HIGH SCHOOL EVANSVILLE, INDIANA JOSEPH C. LLEWELLYN Co., Architects



BANCROFT SCHOOL
WASHINGTON, DISTRICT OF COLUMBIA
A. L. HARRIS, Architect



DUFFIELD SCHOOL DETROIT, MICHIGAN MALCOMSON & HIGGINBOTHAM, Architects



CHARLES E. GORTON HIGH SCHOOL YONKERS, NEW YORK G. HOWARD CHAMBERLIN, Architect



HIGH SCHOOL OCEANSIDE, LONG ISLAND TOOKER & MARSH, INC., Architects



GRADE SCHOOL LEROY, NEW YORK TOOKER & MARSH, INC., Architects



PATCHOGUE HIGH SCHOOL PATCHOGUE, LONG ISLAND TOOKER & MARSH, INC., Architects



SCHOOL OF ST. NICHOLAS OF TOLENTINE NEW YORK CITY JOHN P. BOYLAND, Architect



HOUSTON SCHOOL HOUSTON, DELAWARE GUILBERT & BETELLE, Architects

# Austral Windows



WARREN G. HARDING HIGH SCHOOL
BRIDGEPORT. CONNECTICUT
EDWARD B. CALDWELL, Jr.; CHARLES W. WALKER, Jr., and Frederick H. Beckwith, Architects



P. A. CAPDAU SCHOOL NEW ORLEANS, LOUISIANA E. A. Christy, Architect



FRONT STREET JUNIOR HIGH SCHOOL JAMESTOWN, NEW YORK GUILBERT & BETELLE, Architects

# Austral Windows



HIGH SCHOOL VALDOSTA, GEORGIA G. LLOYD PREACHER, Architect



WOODROW WILSON SCHOOL CICERO, ILLINOIS ASHBY, ASHBY & SCHULZE, Architects



CORNWALL SCHOOL
CORNWALL-ON-THE-HUDSON, NEW YORK
TOOKER & MARSH, INC., Architects



HICKSVILLE HIGH SCHOOL HICKSVILLE, LONG ISLAND COFFIN & COFFIN, Architects



BOULEVARD SCHOOL CLEVELAND, OHIO FRANZ C. WARNER, Architect



BURNHAM SCHOOL CICERO, ILLINOIS ASHBY, ASHBY & SCHULZE, Architects



CHARLES E. NICHOLS SCHOOL MOUNT VERNON, NEW YORK WERNER & GREENFIELD, Architects



ODESSA SCHOOL ODESSA, DELAWARE Guilbert & Betelle, Architects



McDONOGH SCHOOL No. 28 NEW ORLEANS, LOUISIANA E. A. Christy, Architect

## Austral Windows



CHEMICAL BUILDING, LOYOLA UNIVERSITY NEW ORLEANS, LOUISIANA PETER TORRE, Architect



GLENSIDE-WELDON SCHOOL WELDON, PENNSYLVANIA HEACOCK & HOKANSON, Architects



HIGH SCHOOL GREENVILLE, SOUTH CAROLINA J. E. SIRRINE & COMPANY, Architects

## Austral Windows



J. STERLING MORTON HIGH SCHOOL CICERO, ILLINOIS ASHBY, ASHBY & SCHULZE, Architects



ADMINISTRATION BUILDING, UNIVERSITY OF FLORIDA GAINESVILLE, FLORIDA EDWARDS & SAYWARD, Architects



HARTLEY SCHOOL HARTLEY, DELAWARE GUILBERT & BETELLE, Architects



ABINGTON HIGH SCHOOL ABINGTON, PENNSYLVANIA HEACOCK & HOKANSON, Architects



JEFFERSON SCHOOL MAPLEWOOD, N. J. Guilbert & Betelle, Architects



HIGH SCHOOL SENECA FALLS, NEW YORK TOOKER & MARSH, INC., Architects



CROCKETT SCHOOL GALVESTON, TEXAS WILLIAM B. ITTNER, Architect



HOLY NAME OF MARY SCHOOL ALGIERS, LOUISIANA ALEX. W. NORMAN, Architect



HOLLYMOUNT SCHOOL HOLLYMOUNT, DELAWARE Guilbert & Betelle, Architects



GRADE SCHOOL RIVERHEAD, LONG ISLAND TOOKER & MARSH, INC., Architects



BOYS HIGH SCHOOL MACON, GEORGIA CURRAN ELLIS, Architect



LEWES COLORED SCHOOL LEWES, DELAWARE GUILBERT & BETELLE, Architects



KEARNY HIGH SCHOOL KEARNY, NEW JERSEY Guilbert & Betelle, Architects



SUMMIT GRADE SCHOOL SUMMIT, ILLINOIS ASHBY, ASHBY & SCHULZE, Architects



WILLIAM WILSON JUNIOR SCHOOL MOUNT VERNON, NEW YORK WERNER & GREENFIELD, Architects



MILBURN HIGH SCHOOL MILBURN, NEW JERSEY Guilbert & Betelle, Architects



KIRKWOOD SCHOOL KIRKWOOD, DELAWARE Guilbert & Betelle, Architects



ST. EDWARD'S PAROCHIAL SCHOOL BALTIMORE, MARYLAND GEORGE R. CALLIS, Architect



GOLIAD SCHOOL
GALVESTON, TEXAS
WILLIAM B. ITTNER, Architect



PUBLIC SCHOOL, No. 3 BALDWIN, LONG ISLAND TOOKER & MARSH, INC., Architects



JUNIOR HIGH SCHOOL ELIZABETH, NEW JERSEY HAROLD B. BRADY, Architect



MT. CLEMENS HIGH SCHOOL
MT. CLEMENS, MICHIGAN
Jos. C. LLEWELLYN COMPANY, Architects



LOYOLA COLLEGE BALTIMORE, MARYLAND LUCIUS R. WHITE, JR., Architect



BALL HIGH SCHOOL GALVESTON, TEXAS WILLIAM B. ITTNER, Architect



HIGH SCHOOL SAYVILLE, LONG ISLAND TOOKER & MARSH, INC., Architects



CONGRESS SCHOOL GRAND RAPIDS, MICHIGAN H. H. Turner, Architect



ST. JOHN'S LUTHERAN SCHOOL BALTIMORE, MARYLAND OTTO G. SIMONSON, Architect



HOUSTON SCHOOL GALVESTON, TEXAS WILLIAM B. ITTNER, Architect



SCHOOL No. 19 ELIZABETH, NEW JERSEY HAROLD B. BRADY, Architect



MADISON HIGH SCHOOL MADISON, NEW JERSEY GUILBERT & BETELLE, Architects



HEALTH SCHOOL
WASHINGTON, DISTRICT OF COLUMBIA
A. L. Harris, Architect



SMYRNA HIGH SCHOOL SMYRNA, DELAWARE Guilbert & Betelle, Architects



WALKER SCHOOL GRAND RAPIDS, MICHIGAN H. H. TURNER, Architect

# Austral Windows



WILBY HIGH SCHOOL WATERBURY, CONNECTICUT LOUIS A. WALSH, Architect



HAWKINS STREET SCHOOL NEWARK, NEW JERSEY GUILBERT & BETELLE, Architects



COMMERCIAL HIGH SCHOOL NEW HAVEN, CONNECTICUT Brown & Von Beren, Architects

